

Title (en)
LIFT-OFF PATTERNING PROCESSES EMPLOYING ENERGETICALLY-STIMULATED LOCAL REMOVAL OF SOLID-CONDENSED-GAS LAYERS

Title (de)
ABHEBE-STRUKTURIERUNGSPROZESSE MIT ENERGETISCH STIMULIERTER LOKALER ENTFERNUNG VON FESTSTOFF-KONDENSIERTES-GAS-SCHICHTEN

Title (fr)
PROCEDE DE REALISATION DE MOTIFS DEGAGES PAR ENLEVEMENT LOCAL AU MOYEN D'ENERGIE DE COUCHES DE GAZ CONDENSE EN ETAT SOLIDE

Publication
EP 1829088 B1 20160817 (EN)

Application
EP 05853301 A 20051208

Priority
• US 2005044348 W 20051208
• US 843804 A 20041209

Abstract (en)
[origin: WO2006063098A1] The invention provides a method for forming a patterned material layer on a structure, by condensing a vapor to a solid condensate layer on a surface of the structure and then localized removal of selected regions of the condensate layer by directing a beam of energy at the selected regions, exposing the structure at the selected regions. A material layer is then deposited on top of the solid condensate layer and the exposed structure at the selected regions. Then the solid condensate layer and regions of the material layer that were deposited on the solid condensate layer are removed, leaving a patterned material layer on the structure.

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Citation (examination)
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• R.W. DEVENICH ET AL.: "Nanolithography Using Field Emission and Conventional Thermionic Electron Sources", ULTRAMICROSCOPY, vol. 28, no. 1-4, 1 April 1989 (1989-04-01), Amsterdam, pages 324 - 329, ISSN: 0304-3991

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